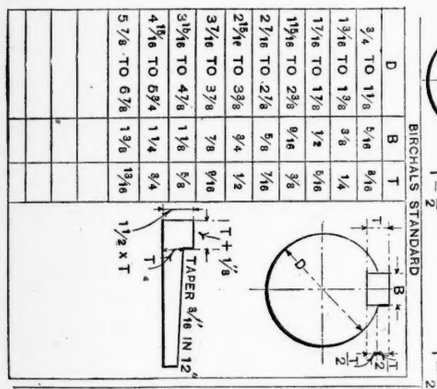
PUNCH

PUNCH

CREASE HERE.



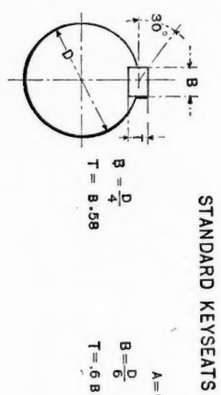


TABLE OF GEAR FACES.

Pitch	1	1 1/16	1 1/8	1 3/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4
Spur Gears	1 1/16	1 1/8	1 3/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4	3
Bevel Gears	1 1/16	1 1/8	1 3/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4	3
Miter Gears	1 1/16	1 1/8	1 3/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4	3
Worm Gears	1 1/16	1 1/8	1 3/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4	3
Spur Racks	1 1/16	1 1/8	1 3/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4	3
Spur Mortise	...	...	...	...	...	...	...	5	5 1/16	6	6 1/16	7	7 1/16	8	8 1/16	9	9 1/16	10
Pinions for Spur Mortise Wheels	...	...	...	...	...	...	...	5 1/16	6	6 1/16	7	7 1/16	8	8 1/16	9	9 1/16	10	10 1/16
Bevel Mortise Wheels and Pinions	...	...	...	...	...	...	...	5	5 1/16	6	6 1/16	7	7 1/16	8	8 1/16	9	9 1/16	10
Miter Mortise Wheels and Pinions	...	...	...	...	...	...	...	5	5 1/16	6	6 1/16	7	7 1/16	8	8 1/16	9	9 1/16	10

Pitch	2 7/16	3	3 1/16	3 1/8	3 3/16	3 1/4	3 5/16	3 3/8	3 7/16	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6
Spur Gears	8 1/16	9	9	9 1/16	10	10 1/16	10 1/16	11	11	12	13	14	15	16	17	18	19	20
Bevel Gears	8	8 1/16	8 1/16	9	9 1/16	10	10	10 1/16	10 1/16	11	11 1/16	12	13	14	15	16	17	18
Miter Gears	7 15/16	8 1/16	8 1/16	9	9 1/16	10	10	10 1/16	10 1/16	11	11 1/16	12	13	14	15	16	17	18
Worm Gears	6	6 1/16	7	7 1/16	7 1/16	7 15/16	8	8 1/16	8 1/16	9	9 1/16	10	10 3/4	11 1/4	12	12 1/16	13	13 1/16
Spur Racks	8	9	9	9	10	10	10 1/16	11	11	12	13	14	15	16	17	18	19	20
Spur Mortise Wheels	10 1/16	11	11 1/16	12	12 1/16	13	13 1/16	14 1/16	14 1/16	15	16	17	18	19	20	21	22	23
Pinions for Spur Mortise Wheels	11	11 1/16	12	12 1/16	13	13 1/16	14	14 1/16	15	15 1/16	16 1/16	17 1/16	18 1/16	19 1/16	20 1/16	21 1/16	22 1/16	23 1/16
Bevel Mortise Wheels and Pinions	10 1/16	11	11 1/16	12	12 1/16	13	13 1/16	14	14 1/16	15	16	17	18	19	20	21	22	23
Miter Mortise Wheels and Pinions	10 1/16	11	11 1/16	12	12 1/16	13	13 1/16	14	14 1/16	15	16	17	18	19	20	21	22	23

Contributed by W. O. Renkin.

Supplement to MACHINERY, September, 1904.

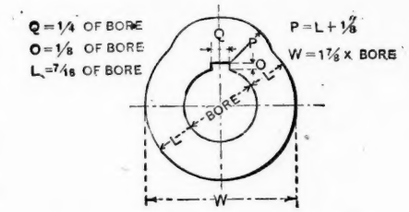
PUNCH

PUNCH

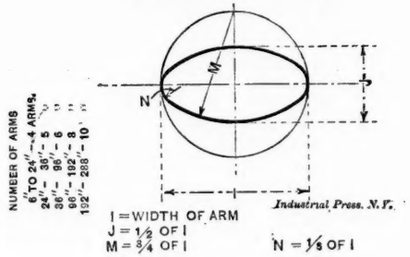
CREASE HERE.

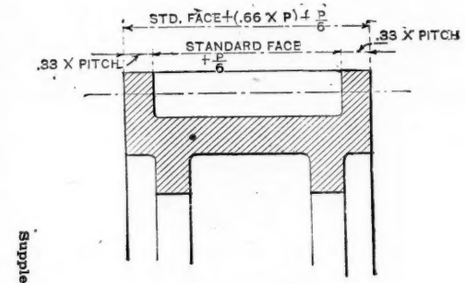
Contributed by W. O. Renkin.

STANDARD HUB

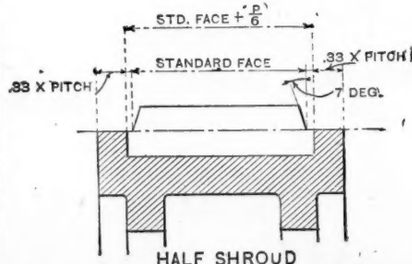


STANDARD OVAL ARM





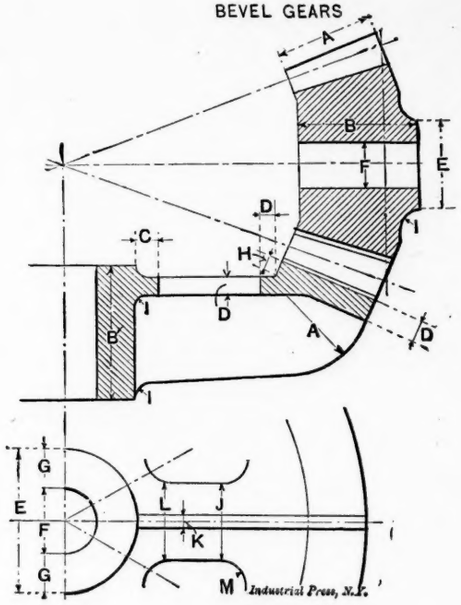
FULL SHROUD



HALF SHROUD

Industrial Press, N.Y.

BEVEL GEARS



BEVEL GEARS.

A = See Sheet 4
$B = A + .25 \times$ Pitch
$C =$ At least $.25 \times L$
$D = .48 \times$ Pitch
$E = 1.875 \times$ Bore
$F =$ Bore
$G = .4375 \times$ Bore
$H = .45 \times$ Pitch
$I = .25 \times$ Pitch
$J = 2.30 \times$ Pitch
$K = .40 \times$ Pitch
$L = J + \frac{3}{4}$ inch per foot of Length
$M = .25 \times J$
For Hub, See Upper Left-hand Sketch
For Number of Arms, See Upper Left-hand Sketch
$B' = A + .05 \times$ Diameter

Supplement to MACHINERY, September, 1904.

DATA SHEETS.

These data sheets are intended to be cut into four sections, 6 x 9 inches in size, as indicated by the straight lines. They may then be bound into note-book form for convenient reference by means of staples inserted in holes punched at the points indicated. A suitable binder for these data sheets will be supplied for 25 cents. This binder has an open back and will hold an indefinite number of 6 x 9 sheets, depending on the length of staples used.

Only data not available in engineers' handbooks desired.